

# Recovery Plan Action Status

Plan Name: Recovery Plan for *Pleodendron macranthum* and *Eugenia haematocarpa*

Plan Status: Final

Plan Date: 11-Sep-98

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

(787)

851-7297 )

| Species   | Action Priority # | Action # | Action Description  | Action Status   | Est. Initiation Date | Est. Completion Date | Responsible Parties   | Work Type                        | Labor Type   | Action Comments  |
|---|-------------------|----------|---|-----------------|----------------------|----------------------|---|----------------------------------|--|--|
| Uvillo ( <i>Eugenia haematocarpa</i> ), Chupacallos ( <i>Pleodendron macranthum</i> ) | 1                 | 111      | Develop management plans, in cooperation with the USDA Forest Service, for the Caribbean National Forest. | Not Started     |                      |                      | Region 4 - Ecological Services, FWS, Division of Ecological Services, US Forest Service   | Management: Planning             | Internal Administrative, Internal Field Assistance |  |
| Uvillo ( <i>Eugenia haematocarpa</i> ), Chupacallos ( <i>Pleodendron macranthum</i> ) | 1                 | 121      | Monitor known populations.  | Not Started     |                      |                      | Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service                    | Research: Population Surveys     | Graduate Student, Internal Field Assistance        |  |
| Uvillo ( <i>Eugenia haematocarpa</i> ), Chupacallos ( <i>Pleodendron macranthum</i> ) | 1                 | 122      | Enforce existing Commonwealth and Federal endangered species regulations.                                 | Ongoing Current | FY 1995 - FY 1999    | FY 2011              | Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Division of Law Enforcement, FWS, Division of Ecological Services, US Forest Service | Other: Law Enforcement           | Internal Field Assistance                          |  |
| Uvillo ( <i>Eugenia haematocarpa</i> ), Chupacallos ( <i>Pleodendron macranthum</i> ) | 2                 | 123      | Educate the public on plant conservation values and regulations pertaining to endangered species.         | Ongoing Current | FY 1995 - FY 1999    | FY 2011              | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service  | Other: Information and Education | Internal Administrative                            | The first years' cost for production of materials. Species is included in public education programs. |

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| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 211      | Identify and inventory potential sites.                                     | Not Started   |                      |                      | Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Research: Habitat Requirements | Internal Field Assistance, Internal Technical Assistance |  |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 212      | Assess periodicity of flower production and pollination activity            | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service                             | Research: Demographic Studies  | Contract, Graduate Student                               |  |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 212      | Characterize sites to determine their suitability as future recovery sites. | Not Started   |                      |                      | Conservation Organizations, Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Research: Habitat Requirements | Contract, Internal Field Assistance                      |  |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 1                 | 213      | Obtain protective status for the privately-owned population sites.          | Not Started   |                      |                      | Puerto Rico Department of Natural and Environmental Resources, Region 4 - Ecological Services, FWS, Division of Ecological Services                              | Acquisition: Easement          | Internal Field Assistance                                | Cost cannot be determined at present due to the possibility of conservation easements and/or landowner agreements. |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 31       | Define habitat requirements.  | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service                             | Research                       | Graduate Student, Species Expert                         |  |

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| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 323      | Assess seed viability.                       | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Research: Propagation    | Graduate Student, Species Expert                   |                 |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 324      | Evaluate seedling establishment and growth.  | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Research: Reintroduction | Graduate Student, Internal Field Assistance        |                 |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 325      | Determine genetic structure of the species.  | Not Started   |                      |                      | Universities, FWS, Division of Ecological Services   | Research: Genetics       | Contract, Graduate Student                         |                 |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 331      | Assess feasibility of propagation.           | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Research: Propagation    | Graduate Student, Species Expert                   |                 |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 332      | Develop artificial propagation program.      | Not Started   |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Management: Propagation  | Internal Administrative, Internal Field Assistance |                 |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 411      | Select sites and assess habitat suitability. | Not Started   |                      |                      | Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service               | Management               | Internal Field Assistance                          |                 |

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| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 412      | Ensure site protection.   | Ongoing Current | FY 2006              | FY 2011              | Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service               | Other: Law Enforcement        | Internal Field Assistance                                | No cost anticipated. DNER rangers enforce regulations. |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 413      | Introduce plants.   | Planned         |                      |                      | Universities, Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service | Management: Reintroduction    | Internal Administrative, Internal Field Assistance       | Chupacallos material to be planted at El Yunque.       |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 51       | Determine numbers of individuals and populations necessary to ensure species stability, security and self perpetuation. | Not Started     |                      |                      | Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services, US Forest Service               | Research: Demographic Studies | Internal Field Assistance                                |  |
| Uvillo (Eugenia haematocarpa), Chupacallos (Pleodendron macranthum) | 2                 | 52       | Determine what additional actions, if any, are necessary to achieve recovery criteria.                                  | Not Started     |                      |                      | Puerto Rico Department of Natural and Environmental Resources, FWS, Division of Ecological Services                                  | Research                      | Internal Field Assistance, Internal Technical Assistance |  |